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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/510,905 02/23/2000		John A. Thodiyil	SUN-P3992-JTF	3744
22200	7590 10/06/2004	EXAMINER		
PARK, VAUGHAN & FLEMING LLP 702 MARSHALL STREET SUITE 310 REDWOOD CITY, CA 94063			PHILPOTT, JUSTIN M	
			ART UNIT	PAPER NUMBER
			2665	

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>-</u>						
		Application No.	Applicant(s)			
		09/510,905	THODIYIL, JOHN	N A.		
	Office Action Summary	Examiner	Art Unit			
		Justin M Philpott	2665			
Period f	The MAILING DATE of this communication a or Reply	ppears on the cover she	et with the correspondence a	ddress		
THE - External control	HORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR or SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a coperiod for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by state that the property of the	J. 1.136(a). In no event, however, r eply within the statutory minimum od will apply and will expire SIX (6 ute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered time b) MONTHS from the mailing date of this borne ABANDONED (35 U.S.C. § 133).	ely. communication.		
Status						
1)⊠	Responsive to communication(s) filed on 23	June 2004.				
2a)□		his action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
5)⊠ 6)⊠	 Claim(s) 1-3,5-22 and 24-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 11-22 and 24-31 is/are allowed. Claim(s) 1-3,8-10 and 32 is/are rejected. Claim(s) 5-7 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 					
Applicat	tion Papers					
10)	The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptance and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the	ccepted or b) objecte ne drawing(s) be held in ale action is required if the dra	peyance. See 37 CFR 1.85(a). awing(s) is objected to. See 37 C	, ,		
Priority	under 35 U.S.C. § 119					
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a list	nts have been received nts have been received iority documents have t au (PCT Rule 17.2(a)).	l. I in Application No Deen received in this Nationa	I Stage		
Attachmer	• •	_				
2) 🔲 Notio 3) 🔲 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	Pape 8) 5) Notice	view Summary (PTO-413) rr No(s)/Mail Date re of Informal Patent Application (PT r:	·O-152)		

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, see pages 11-14, filed June 23, 2004, with respect to the rejection of claims 25-31 been fully considered and are persuasive in view of the amendments to the claims. Therefore, the rejection has been withdrawn.
- 2. The indicated allowability of claims 1-3 and 8-10 is withdrawn in view of the newly discovered reference to Lyon. Rejections based on the newly cited reference follow.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-3, 8-10 and 32 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,721,273 to Lyon.

Regarding claims 1 and 32, Lyon teaches a method for scheduling data for transmission over a communication link based on priorities assigned to the data, comprising: receiving multiple descriptors at a communication interface device (e.g., thresholds, see col. 24, lines 37-38), each of the descriptors describing a data portion (e.g., data in output queue, e.g., see col. 24, line 38) having an associated priority (e.g., according to bandwidth, see col. 24, line 39); storing

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the descriptors in a plurality of memories (e.g., registers, see col. 24, line 37) on the communication interface device (e.g., traffic flow controller, see col. 24, lines 2-28), wherein each of the memories (e.g., registers) is configured to store one or more of the descriptors describing data associated with a predetermined priority (e.g., count level, see col. 24, lines 29-33); maintaining a dynamic weight for each of the plurality of memories (e.g., bandwidth priority, see col. 24, line 39), wherein each dynamic weight corresponds to a threshold amount of data associated with the predetermined priority (e.g., number of cells with respect to threshold, see col. 24, lines 40-63); and servicing the plurality of memories (e.g., registers), wherein each servicing of one of the plurality of memories comprises: (a) receiving a descriptor from the serviced memory (e.g., exceeded threshold, see col. 24, lines 40-43); (b) retrieving data described by the received descriptor, wherein the amount of retrieved data may exceed the threshold amount (e.g., cells, according to exceeded threshold, see col. 24, lines 40-52); (c) scheduling the data for transmission via the communication link (e.g., via schedulers, see col. 25, lines 27-32); (d) determining whether an amount of data scheduled during the servicing for transmission via the communication link exceeds the threshold amount of data corresponding to the dynamic weight for the serviced memory (e.g., see col. 25, lines 39-51 and lines 56-65 regarding exceeded threshold); (e) repeated stages (a) through (d) for a next descriptor in the serviced memory if the amount of data scheduled for transmission during the servicing is less than the threshold amount of data (e.g., see col. 25, lines 1-26, wherein controller inherently determines to continue servicing by selecting next counter); (f) and if the amount of data scheduled for transmission exceeds the threshold amount of data, decreasing the threshold for a

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next servicing of the serviced memory (e.g., see col. 25, lines 13-15, wherein decrementor decreases counter).

Regarding claim 2, Lyon teaches the servicing further comprises: (g) determining if the serviced memory contains a descriptor (e.g., see col. 24, lines 40-52, wherein controller inherently determines if a threshold is provided by the register).

Regarding claim 3, Lyons teaches the servicing further comprises: (g) determining whether a dynamic weight for one of the plurality of memories has changed (e.g., via encoder, see col. 25, lines 16-26).

Regarding claim 8, Lyons teaches transmitting the data scheduled for transmission via the communication link before the entire contents of a packet comprising the scheduled data are scheduled for transmission (e.g., see col. 25, lines 27-32 regarding scheduler transmitting cells of data).

Regarding claim 9, Lyons teaches each of the dynamic weights is dynamically modifiable to adjust the threshold amounts of data (e.g., see col. 24, lines 40-52, wherein the number of cells is dynamically modifiable through discarding).

Regarding claim 10, Lyons teaches the communication interface device is a network interface circuit and the communication link is a network (e.g., see FIGS. 1 and 2).

Allowable Subject Matter

Claims 11-22 and 24-31 are allowed.

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Claims 5-7 are objected to as being dependent upon a rejected base claim, but would be

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allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Justin M Philpott whose telephone number is 571.272.3162. The

examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Huy D Vu can be reached on 571.272.3155. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Justin M Philpott

SUPERVISORY PATENT EXAMINER

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